Chemical Physics

Contents

VOL. 251, NOS. 1-3 1 JANUARY 2000

Abstracted/indexed in: Chemical Abstracts, ERDA Abstracts, ISI Current Contents, Inspec Abstracts, Nuclear Engineering Abstracts, Physics Abstracts, Physics Abstracts, Physics Briefs

Electron Dynamics in Metals

Preface	vi
Theory of inelastic lifetimes of low-energy electrons in metals P.M. Echenique, J.M. Pitarke, E.V. Chulkov and A. Rubio	1
Surface collective excitations in ultrafast pump-probe spectroscopy of metal nanoparticles T.V. Shahbazyan and I.E. Perakis	37
Photodesorption of NO from a metal surface: quantum dynamical implications of a two-mode model P. Saalfrank, G. Boendgen, K. Finger and L. Pesce	51
The role of Auger decay in hot electron excitation in copper H. Petek, H. Nagano, M.J. Weida and S. Ogawa	71
Hot-electron femtochemistry at surfaces: on the role of multiple electron processes in desorption J.W. Gadzuk	87
Femtosecond electron dynamics at the benzene/Ag(111) interface K.J. Gaffney, C.M. Wong, S.H. Liu, A.D. Miller, J.D. McNeill and C.B. Harris	99
Femtosecond two-photon photoemission studies of image-potential states T. Fauster, C. Reuß, I.L. Shumay and M. Weinelt	111
Influence of Xe adlayer morphology and electronic structure on image-potential state lifetimes of Ru(0001) W. Bertheld, H. Höfer, R. Feulrer, and D. Mongel.	
W. Berthold, U. Höfer, P. Feulner and D. Menzel	123
Photoemission linewidths narrower than the quasiparticle inverse lifetime TC. Chiang	133
Ultrafast electron dynamics at surfaces probed by resonant Auger spectroscopy W. Wurth and D. Menzel	141
Quasi-particle lifetimes on noble metal surfaces studied by ARPES and STM R. Matzdorf	151
Ultrafast electron and lattice dynamics in semiconductors at high excited carrier densities J.P. Callan, A.MT. Kim, L. Huang and E. Mazur	167
Electron dynamics in metallic nanoparticles JY. Bigot, V. Halté, JC. Merle and A. Daunois	181
Ultrafast transient grating scattering studies of carrier dynamics at a silicon surface T. Sjodin, CM. Li, H. Petek and HL. Dai	205

(continued on inside back page)





Contents

(continued from page 4 of cover)

N. Del Fatti, F. Vallée, C. Flytzanis, Y. Hamanaka and A. Nakamura	215
Laser induced dynamic spectral weight transfer in La _{0.7} Ca _{0.3} MnO ₃ A.I. Lobad, A.J. Taylor, C. Kwon, S.A. Trugman and T.R. Gosnell	227
Electron and lattice dynamics following optical excitation of metals J. Hohlfeld, SS. Wellershoff, J. Güdde, U. Conrad, V. Jähnke and E. Matthias	237
Ultrafast optical relaxation dynamics in metallic nanoparticles: from bulk-like toward spatial confinement regime S. Stagira, M. Nisoli, S. De Silvestri, A. Stella, P. Tognini, P. Cheyssac and R. Kofman	259
Coherent control of electron-phonon quantum kinetics: exploring the weak and the strong coupling regime M. Wegener and D.S. Chemla	269
Coherent phonon spectroscopy of GaAs surfaces using time-resolved second-harmonic generation YM. Chang, L. Xu and H.W.K. Tom	283
Coherence control of currents in semiconductors: a materials perspective H.M. van Driel	309
Author index	319
Subject index	323
Instructions to authors	331



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect